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SQM INTERNATIONAL SERIES

The SQM INTERNATIONAL SERIES" switchers offer a family of seven highly versatile models ranging from 150 watts to 350 watts in continuous output power. In addition to their constant output power rating all units feature higher peak power capabilities to accommodate initial "turn-on/spin-up" loads required by various computer peripherals such as multiple disc drive, tape drive, and printer applications. Up to five outputs are available on the SQM 355 and SQM 205 models.

The "SQM INTERNATIONAL SERIES" features state-of-the-art feed forward designs while utilizing the proven dependability and economy of bipolar switching technology. All units are equipped with primary circuit protection to guard against accidental application of 230V when configured for 115V operation.

Standard features on most units include:

- International input capability (90-132/180-264 VAC, 47-440Hz)
- Primary circuit protection against overvoltage
- Built-in line filtering meets the requirements of FCC Level B and VDE 0871 Level A
- 3750 VAC Safety Isolation (4mm spacing primary to GND, 8mm spacing primary to secondary)
- Shielded power transformers
- Built-in overload and overvoltage protection
- Overtemperature shut-down
- Remote sense capability (except SQM355 & 205 models)
- Vacuum impregnated magnetics
- Fixed frequency pulse-width modulation
- Nominal 24-hour high temperature burn-in, AC cycled
- UL recognized (UL478, UL1950)
- TUV approved (IEC380, VDE0806, EN60950)
- CSA certified (selected models)
- 100% computer final test

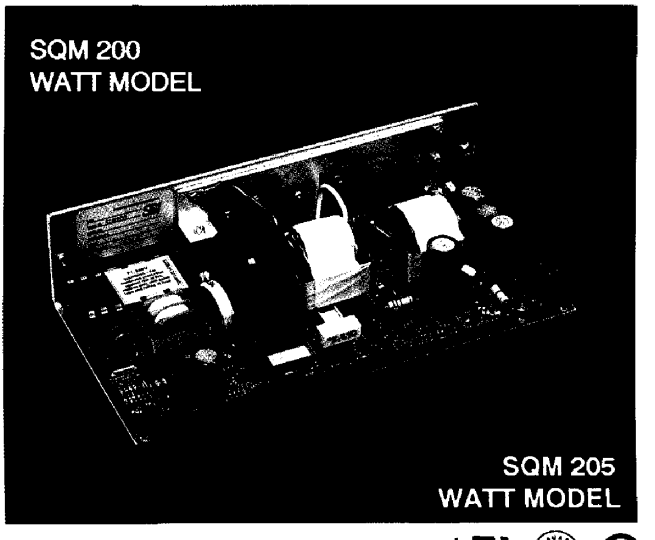
Options include:

- Universal input: 90-264 VAC Autoranging
- TTL-Hi or TTL-Lo power fail detect circuitry (customer specified)
- Remote inhibit: TTL compatible
- Power Valid Signal
- EMI/RFI cover
- Fan/Cover Assembly

All units meet the following international specifications for safety isolation and EMI/RFI emissions:

UL478	EN60950	UL1950	IEC380
CSA22.2/ No. 234	BS6301	VDE0806	FCC20708 LEVEL B
	VDE871 LEVEL A		

"**SQM INTERNATIONAL SERIES**" switchers are guaranteed for one full year covering all parts and labor.



SPECIFICATIONS

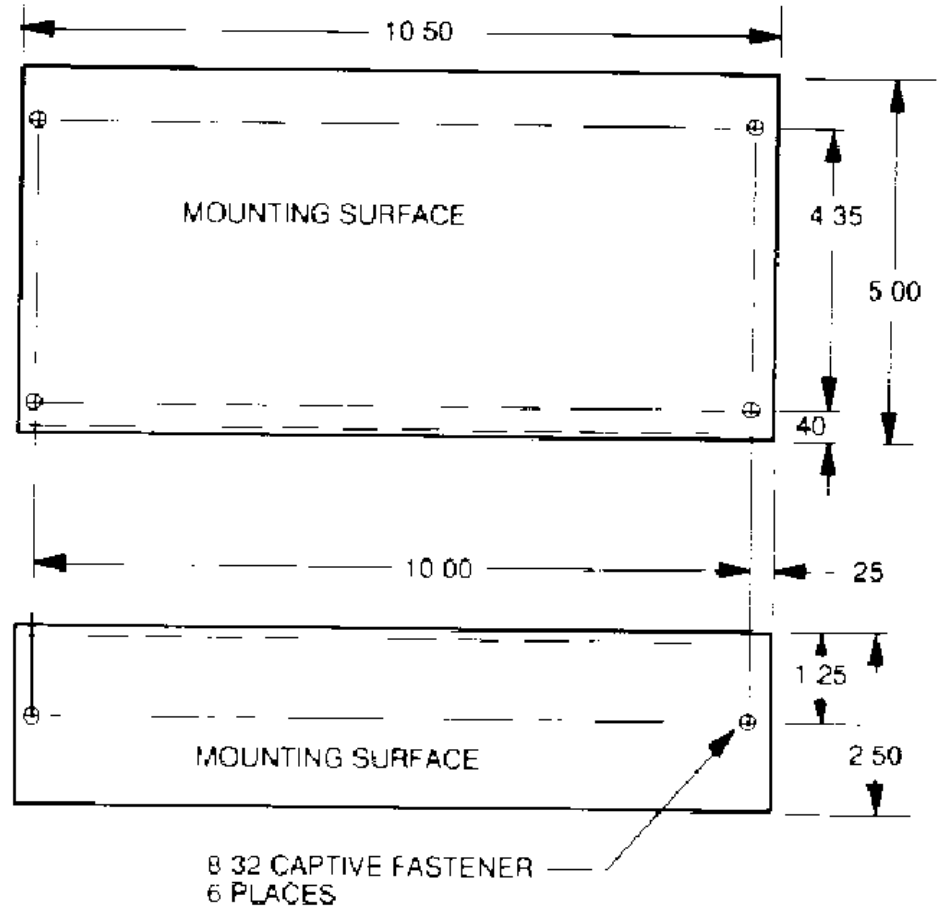
Input:	90-132VAC/180-264VAC, 47-440Hz Inrush: 15A @ 115V for ½ cycle 30A @ 230V for ½ cycle } Cold Start
Output:	See output voltage table
Line Regulation:	0.2%, all outputs
Load Regulation:	1%, main output 5%, aux no. 1 1%, aux no.'s 2, 3, and 4
Adjustment Range:	±5%, aux no.'s 2 and 3 and main output
Centering:	±3% aux no. 1
Cross Regulation:	3% aux no. 1 (change main output from 50% to 100% of max rated load)
Ripple and Noise:	50mV P-P max, main output (10MHz bandwidth) 1% of nominal, aux no.1 (10MHz bandwidth) 100mV P-P max, aux no.'s 2, 3, and 4 (10MHz bandwidth)
Efficiency:	75% typical
Operating Temperature:	0-50°C at full rated load. Derate to 50% of full rated load at 70°C. Unit requires 25CFM of forced air cooling at full rated load. Unit is equipped with overtemperature shutdown.
Temperature Coefficient:	0.02% per °C
Overvoltage Protection:	OVP on main output is set between 6-6.5 V. This protection is reset by recycling input power.
Overload Protection:	All outputs are protected against overload and short circuit conditions. Recovery is automatic when load is reduced.
Holdover Storage:	16mSEC minimum at full rated load, nominal input voltage
Transient Response:	Recovery to within 1% of nominal output voltage within 500uSEC for a 25% load step
Overshoot:	No voltage spikes on turn-on, turn-off, or power fail
Remote Sense:	Remote sense on the main output compensates for up to 0.5V in the load cable (not available on SQM205 models)
Power Fail: (Optional)	A TTL signal (high or low, customer specified) appears within 5mSEC to warn of input voltage drop below minimum operating level.
Power Valid: (Optional)	A TTL high signal appears when main output is within TTL operating range. (not available on SQM 205 models)
Universal Input: (Optional)	90-264VAC autoranging See page 23
Remote Inhibit (Optional)	TTL low or switch closure See page 23

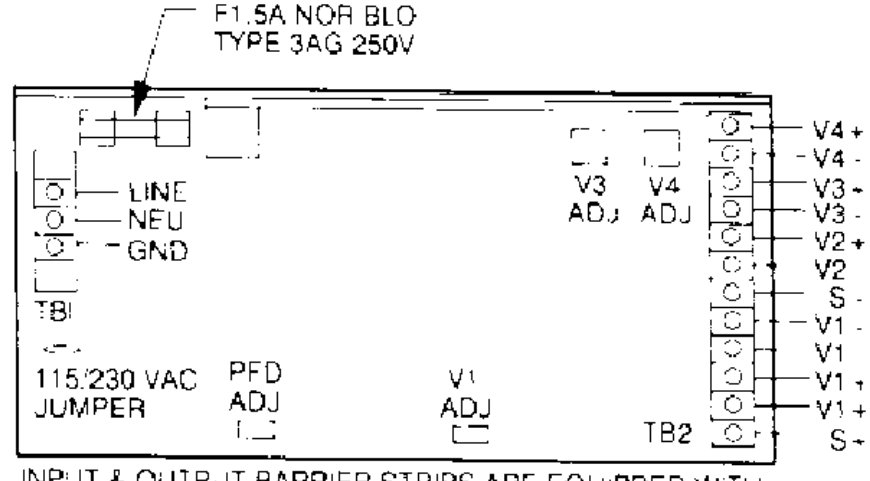
OPERATIONAL SPECIFICATIONS

Load Requirements:	SQM 200: Main output requires 10% minimum load, OR aux no.1 requires 10% minimum load to enable aux no.'s 2 and 3 to operate within specification. SQM 205: Main output requires 20% minimum load to enable aux no.'s 2,3 & 4 to operate within specification.
DC Returns:	Main output and aux no. 1 share common return. Aux output no.'s 2 , 3 & 4 are fully independent and floating.
Output Power:	Total continuous power 200 watts max Peak output power 250 watts max
Safety Isolation:	Primary to secondary. 3750VAC (8mm spacing) Unit meets or exceeds the following specifications for safety: VDE0806 UL478 CSA22.2 / NO. 234 IEC380 EN60950 UL1950 BS6301
EMI/RFI:	Input filtering: unit meets requirements of FCC 20780 Class B and VDE0871 Class A. * SQM 200 models only

FOR ORDERING INFORMATION
SEE PAGE 14
FOR MECHANICAL OUTLINE
SEE PAGE 13

SQM 200





INPUT & OUTPUT BARRIER STRIPS ARE EQUIPPED WITH
6-32 SCREWS AND ACCEPT UP TO A .25 WIDE LUG

SQM SERIES — OUTPUT VOLTAGE TABLE — SQM SERIES

MODEL NO.	MAIN OUTPUT (V1) Vnom Imax	AUX #1 (V2) Vnom Imax	AUX #2 (V3) Vnom Imax	AUX #3 (V4) Vnom Imax	AUX #4* (V5) Vnom Imax	MAX OUTPUT POWER	OUTLINE DIMENSIONS
SQM 150	5V @ 20A	12V @ 5A/7A PK 15V @ 5A/7A PK 24V @ 5A/7A PK	5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	N/A	150 WATTS (200W PEAK)	9.5" x 5.0" x 2.5"
SQM 200	5V @ 30A	12V @ 7A/10A PK 15V @ 7A/10A PK 24V @ 7A/10A PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	N/A	200WATTS (250W PEAK)	10.5" x 5.0" x 2.5"
SQM 205	5V @ 25A	12V @ 7A/10A PK 15V @ 7A/10A PK 24V @ 7A/10A PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	5V @ 3A 12V @ 3A 15V @ 3A 24V @ 3A	200 WATTS (250 PEAK)	9.5" x 5.0" x 2.5"
SQM 225	5V @ 30A	12V @ 8A/12 PK 15V @ 8A/12 PK 24V @ 8A/12 PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	N/A	225 WATTS (300W PEAK)	9.5" x 5.0" x 2.5"
SQM 250	5V @ 40A	12V @ 8A/12A PK 15V @ 8A/12A PK 24 V@ 8A/12A PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	N/A	250 WATTS (300W PEAK)	12.0" x 5.0" x 2.5"
SQM 350	5V @ 50A	12V @ 8A/16A PK 15V @ 8A/16A PK 24V @ 8A/16A PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	N/A	350 WATTS (400W PEAK)	13.5" x 5.0" x 2.5"
SQM 355	5V @ 30A	12V @ 8A/16A PK 15V @ 8A/16A PK 24V @ 8A/16A PK	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	5V @ 5A 12V @ 5A 15V @ 5A 24V @ 5A	350 WATTS (400W PEAK)	13.5" x 5.0" x 2.5"

SQM SERIES — ORDERING INFORMATION — SQM SERIES

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TRIPLE OUTPUT	T
QUAD OUTPUT	Q
FIVE OUTPUT	Q

OUTPUT POWER RATING

150 MODEL	150
200 MODEL	200
205 MODEL	205
225 MODEL	225
250 MODEL	250
350 MODEL	350
355 MODEL	355

OPTIONS

A	AUTORANGER
I	INHIBIT

MAIN OUTPUT IS 5V ON ALL MODELS

OUTPUT VOLTAGE	AUX #1 DASH NO.	AUX #2 DASH NO.	AUX #3 DASH NO.	AUX #4 DASH NO. *
5V	N/A	1	1	1
12V	2	2	2	2
15V	3	3	3	3
24V	4	4	4	4

OPTIONS

1	POWER FAIL/TTL HIGH
2	POWER FAIL/TTL LOW
3	POWER VALID/TTL HIGH POWER FAIL/TTL LOW
4	POWER FAIL/TTL HIGH WITH COVER
5	POWER FAIL/TTL LOW WITH COVER
6	POWER VALID/TTL HIGH POWER FAIL/TTL LOW WITH COVER
7	COVER ONLY

FOR TRIPLE OUTPUT MODELS SUBSTITUTE A ZERO (O) INDICATING NO. OUTPUT IN THE APPROPRIATE SPACE.

*AUX NO. 4 AVAILABLE ON SQM 205 & 355 MODELS ONLY

CONTACT FACTORY FOR INFORMATION ON SPECIALLY MODIFIED UNITS